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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/650,403	08/28/2003	Hugo Cheung	TI-32740.1	6534

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EXAMINER

NGUYEN, TANH Q

ART UNIT PAPER NUMBER

2182

DATE MAILED: 10/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Advisory Action  
Before the Filing of an Appeal Brief**

Application No.

10/650,403

Applicant(s)

CHEUNG, HUGO

Examiner

Tanh Q. Nguyen

Art Unit

2182

**--The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

THE REPLY FILED 25 September 2006 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.

1. ☐ The reply was filed after a final rejection, but prior to or on the same day as filing a Notice of Appeal. To avoid abandonment of this application, applicant must timely file one of the following replies: (1) an amendment, affidavit, or other evidence, which places the application in condition for allowance; (2) a Notice of Appeal (with appeal fee) in compliance with 37 CFR 41.31; or (3) a Request for Continued Examination (RCE) in compliance with 37 CFR 1.114. The reply must be filed within one of the following time periods:

- a) ☒ The period for reply expires 3 months from the mailing date of the final rejection.  
b) ☐ The period for reply expires on: (1) the mailing date of this Advisory Action, or (2) the date set forth in the final rejection, whichever is later. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of the final rejection.

Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TWO MONTHS OF THE FINAL REJECTION. See MPEP 706.07(f).

Extensions of time may be obtained under 37 CFR 1.136(a). The date on which the petition under 37 CFR 1.136(a) and the appropriate extension fee have been filed is the date for purposes of determining the period of extension and the corresponding amount of the fee. The appropriate extension fee under 37 CFR 1.17(a) is calculated from: (1) the expiration date of the shortened statutory period for reply originally set in the final Office action; or (2) as set forth in (b) above, if checked. Any reply received by the Office later than three months after the mailing date of the final rejection, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**NOTICE OF APPEAL**

2. ☐ The Notice of Appeal was filed on \_\_\_\_\_. A brief in compliance with 37 CFR 41.37 must be filed within two months of the date of filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since a Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).

**AMENDMENTS**

3. ☒ The proposed amendment(s) filed after a final rejection, but prior to the date of filing a brief, will not be entered because  
(a) ☒ They raise new issues that would require further consideration and/or search (see NOTE below);  
(b) ☐ They raise the issue of new matter (see NOTE below);  
(c) ☐ They are not deemed to place the application in better form for appeal by materially reducing or simplifying the issues for appeal; and/or  
(d) ☐ They present additional claims without canceling a corresponding number of finally rejected claims.

NOTE: See Continuation Sheet. (See 37 CFR 1.116 and 41.33(a)).

4. ☐ The amendments are not in compliance with 37 CFR 1.121. See attached Notice of Non-Compliant Amendment (PTOL-324).  
5. ☐ Applicant's reply has overcome the following rejection(s): \_\_\_\_\_.  
6. ☐ Newly proposed or amended claim(s) \_\_\_\_\_ would be allowable if submitted in a separate, timely filed amendment canceling the non-allowable claim(s).  
7. ☐ For purposes of appeal, the proposed amendment(s): a) ☐ will not be entered, or b) ☐ will be entered and an explanation of how the new or amended claims would be rejected is provided below or appended.  
The status of the claim(s) is (or will be) as follows:  
Claim(s) allowed: \_\_\_\_\_.  
Claim(s) objected to: \_\_\_\_\_.  
Claim(s) rejected: \_\_\_\_\_.  
Claim(s) withdrawn from consideration: \_\_\_\_\_.

**AFFIDAVIT OR OTHER EVIDENCE**

8. ☐ The affidavit or other evidence filed after a final action, but before or on the date of filing a Notice of Appeal will not be entered because applicant failed to provide a showing of good and sufficient reasons why the affidavit or other evidence is necessary and was not earlier presented. See 37 CFR 1.116(e).  
9. ☐ The affidavit or other evidence filed after the date of filing a Notice of Appeal, but prior to the date of filing a brief, will not be entered because the affidavit or other evidence failed to overcome all rejections under appeal and/or appellant fails to provide a showing of good and sufficient reasons why it is necessary and was not earlier presented. See 37 CFR 41.33(d)(1).  
10. ☐ The affidavit or other evidence is entered. An explanation of the status of the claims after entry is below or attached.

**REQUEST FOR RECONSIDERATION/OTHER**

11. ☐ The request for reconsideration has been considered but does NOT place the application in condition for allowance because: \_\_\_\_\_.  
12. ☐ Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s). \_\_\_\_\_.  
13. ☐ Other: \_\_\_\_\_.

Continuation of 3. NOTE:

Claim 17 was listed as previously amended, yet was currently amended from the version filed April 13, 2006 (see attachment). The amendments of claim 17 raise new issues that would require further consideration and/or search.

Attachment - Amendment to claims filed  
April 13, 2006

IN THE CLAIMS

Claims 1-14 (cancelled)

Claim 15 (previously amended): A high performance buffering technique for use with a serial peripheral interface to facilitate high data rates, said buffering technique comprising the steps of  
initializing a single buffer to act as transmitter and receiver by writing data to a data register;

performing a transmit buffering sequence to prepare for the transmitting of the data;

performing a transmit and receive shifting sequence to facilitate transmitting of the data and receiving of new data at substantially the same time; and

performing a receive buffering sequence to prepare for the receipt of additional new data.

Claim 16 (original): The high performance buffering technique of claim 15, wherein said initialization step comprises the step of:

writing the data into a location of said buffer as designated by a write pointer.

Claim 17 (currently amended): The high performance buffering technique of claim 15, wherein said transmit buffering sequence comprises the steps of:

incrementing a write pointer to prevent a next byte to be transmitted from overwriting a previous written byte; and

incrementing a write shift counter to facilitate tracking of a number of bytes available for transmission.

Claim 18 (currently amended): The high performance buffering technique of claim 15, wherein said transmit and receive shifting [[step]] sequence comprises the steps of:

reading the data from a location in the buffer designated by a shift pointer;

writing the data to a transmit shift register;

shifting of the transmit shift register; and

receiving and storing the new data in a receive shift register in a location of said buffer designated by a read pointer.

Claim 19 (currently amended): The high performance buffering technique of claim 15, wherein said receive buffering [[step]] sequence comprises the steps of:

incrementing a shift pointer to identify a new location in the buffer for receiving data; and

incrementing a read shift counter to indicate that the new data has been received.

Claim 20 (original): The high performance buffering technique of claim 15, wherein said buffering technique further comprises the steps of:

interrupting a CPU if the data is ready for transmitting and

said buffer is approximately full; and

interrupting the CPU if said buffer is ready to receive data  
and said buffer is approximately empty.

Claim 21 (cancelled)